

KRS 11/16/2007  
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(FILE 'HOME' ENTERED AT 14:10:10 ON 16 NOV 2007)

FILE 'MEDLINE, CAPLUS, EMBASE, BIOSIS, COMPUSCIENCE, BIOTECHNO' ENTERED  
AT 14:10:35 ON 16 NOV 2007

L1 204586 S ANATASE OR "TIO2" OR (TITANIUM(W)DIOXIDE)  
L2 662 S SEMICONDUCTOR(S)DNA  
L3 3750 S DNA BREAKAGE  
L4 0 S L2 AND L3  
L5 0 S L1 AND L3  
L6 83 S L1 (5N) DNA  
L7 0 S L6 AND L3  
L8 26967 S DNA(S)BREAKAGE  
L9 0 S L8 AND L6  
L10 1 S L8 AND L2  
L11 34121 S QUANTUM DOT?  
L12 0 S L11 AND L8  
L13 2361 S DNA(5N)MANIPULATION  
L14 5 S L13 AND L11  
L15 5 DUP REM L14 (0 DUPLICATES REMOVED)

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KRS 11/16/2007

## EAST Search History

| Ref # | Hits   | Search Query  | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|--------|---|--|------------------|---------|------------------|
| S1    | 622375 | (titanium oxide) or titania                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2007/11/14 16:01 |
| S2    | 180    | S1 with DNA   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2007/11/14 15:57 |
| S3    | 1363   | photocatalysis or photo?catalysis or photocatalysis | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2007/11/14 15:51 |
| S4    | 0      | S2 with S3  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2007/11/14 15:51 |
| S5    | 1      | S2 and S3   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2007/11/14 15:52 |
| S6    | 4      | S2 and catalysis                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2007/11/14 15:53 |
| S7    | 1419   | DNA with semiconductor                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2007/11/14 15:53 |

## EAST Search History

|     |     |                            |  |     |    |                  |
|-----|-----|----------------------------|--|-----|----|------------------|
| S8  | 333 | DNA adj5 semiconductor     | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/11/14 15:53 |
| S9  | 0   | S8 and S3                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/11/14 15:54 |
| S10 | 96  | S8 and manipulation        | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/11/14 15:54 |
| S11 | 57  | S1 near5 DNA               | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/11/14 15:58 |
| S12 | 5   | (titanium oxide) near3 DNA | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/11/14 16:03 |
| S13 | 301 | semiconductor near3 DNA    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/11/14 16:03 |
| S14 | 0   | S13 and S3                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/11/14 16:04 |

## EAST Search History

|     |     |   |  |     |     |                  |
|-----|-----|---|--|-----|-----|------------------|
| S15 | 5   | S13 and (titanium oxide)                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2007/11/15 09:26 |
| S16 | 301 | semiconductor near3 DNA                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2007/11/15 09:26 |
| S17 | 0   | S16 and (titanium dioxide)with DNA with nanoparticle? | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2007/11/15 09:26 |
| S18 | 0   | (titanium dioxide)with DNA with nanoparticle?         | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2007/11/15 09:26 |
| S19 | 6   | (titanium dioxide)with DNA and nanoparticle           | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2007/11/15 09:28 |
| S20 | 69  | (titanium dioxide) with nanoparticle and DNA          | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2007/11/15 09:39 |
| S21 | 2   | ("5460831").PN.                                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | OFF | 2007/11/15 09:41 |

## EAST Search History

|     |   |  |  |     |    |                  |
|-----|---|--|--|-----|----|------------------|
| S22 | 0 | (Titanim dioxide) and DNA targeting                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/11/15 09:42 |
| S23 | 5 | (Titanium dioxide) and DNA targeting                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/11/15 09:43 |
| S24 | 0 | (Titanium dioxide nanoparticle) and DNA targeting      | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/11/15 09:43 |
| S25 | 0 | (Titanium dioxide with nanoparticle) and DNA targeting | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/11/15 09:43 |
| S26 | 1 | (Titanium dioxide and nanoparticle) and DNA targeting  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/11/15 09:44 |
| S27 | 1 | (Titanium dioxide ) and DNA nanoparticle with target\$ | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/11/15 09:46 |
| S28 | 6 | DNA nanoparticle with target\$                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/11/15 09:46 |

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|     |     |                                    |  |     |    |                  |
|-----|-----|------------------------------------|--|-----|----|------------------|
| S29 | 1   | DNA quantum dot with target\$      | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/11/15 09:47 |
| S30 | 19  | DNA with quantum dot with target\$ | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/11/15 09:49 |
| S31 | 1   | "09".src. and "784866".ap.         | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/11/15 10:12 |
| S32 | 256 | DNA with nanocrystal\$             | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/11/15 10:13 |
| S33 | 83  | S32 and delivery                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/11/15 10:13 |
| S34 | 22  | S33 and manipulation               | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/11/15 10:14 |
| S35 | 4   | S33 and radioisotope               | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/11/15 10:16 |

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|     |   |                               |  |     |     |                  |
|-----|---|-------------------------------|--|-----|-----|------------------|
| S36 | 2 | ("6361944").PN.               | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | OFF | 2007/11/15 13:26 |
| S37 | 0 | anatase with dna with cleav\$ | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2007/11/16 10:16 |
| S38 | 4 | anatase with dna              | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2007/11/16 10:16 |